

```
graph TD
    2[INPUT VR_kj, for j=1 to J, k=1 to K] --> 4[GENERATE ITS_i, i=1 to I]
    4 --> 6[QUANTIFY VA_ij, i=1 to K_j]
    6 --> 8[PrintProSys Server Receives and Stores VA_ij]
    8 --> 10[TRANSMIT BIFB to PrintProSys]
    10 --> 12[CALCULATE VENDOR CAPABILITY CRITERIA CC]
    12 --> 14[COMPARE, CORRELATE VA_ij (VR_jj) to CC]
    14 --> 16[REFORMAT BIFB TO VIFB AND TRANSMIT TO QUALIFIED VENDORS]
    16 --> 18[PrintProSys RECEIVES B_i]
    18 --> 20[DETECT LOW BID B_i]
    20 --> 22[TRANSMIT LOW BID WIN to BUYER]
    22 --> 24{IF APP, SEND ORDER}
    24 --> 26[GENERATE, TRANSMIT BIDINFORM]
    24 --> APP[APP]
```

The flowchart illustrates the bid evaluation process for PrintProSys. It begins with an input of VR_{kj} for $j = 1$ to J and $k = 1$ to K (block 2). This leads to generating ITS_i for $i = 1$ to I (block 4), which then leads to quantifying VA_{ij} for $i = 1$ to K_j (block 6). The quantified values are then received and stored by the PrintProSys server (block 8). The process continues with transmitting the BIFB to PrintProSys (block 10), calculating vendor capability criteria CC (block 12), comparing and correlating VA_{ij} (or VR_{jj}) to CC (block 14), and reformatting the BIFB to VIFB and transmitting it to qualified vendors (block 16). The PrintProSys then receives B_i (block 18), detects low bids (block 20), and transmits the low bid win to the buyer (block 22). A decision is made on whether to send an order (block 24). If yes, the process ends at the application (APP). If no, the process loops back to block 10. Alternatively, the process can proceed to generate and transmit a bidinform (block 26) after the decision.

FIG. 1

BOOKS: LOOSE-LEAF, SIDE STITCHED, PERFECT BOUND

- ☐ 10 Products covering 2 or more bid categories
- ☐ 11 Less than 250 Any page count
- ☐ 12 250 - 999 Less than 100 pages
- ☐ 13 250 - 999 100 or more pages
- ☐ 14 1M - 10M Less than 100 pages
- ☐ 15 1M - 10M 100 or more pages
- ☐ 16 Over 10M Less than 100 pages
- ☐ 17 Over 10M 100 or more pages

BOOKS: SMYTH-SEWN, CASE-BOUND

- ☐ 18 One color thru process color Any specification

BOOKS: SADDLE STITCHED

- ☐ 20 Products covering 2 or more bid categories
- ☐ 21 Less than 250 Any page count
- ☐ 22 250 - 999 Less than 16 pages
- ☐ 23 250 - 999 16 or more pages
- ☐ 24 1M - 10M Less than 16 pages
- ☐ 25 1M - 10M 16 or more pages
- ☐ 26 Over 10M Less than 16 pages
- ☐ 27 Over 10M 16 or more pages

BOOKS: PASTE ON FOLD

- ☐ 28 Any quantity Saddle or paste
- ☐ 29 Any quantity Paste only

BINDERY ONLY

- ☐ 30 Library binding Rebinding existing books
- ☐ 31 Book / Cut Sheet Pre-printed material

COMPOSITION

- ☐ 32 CD ROM Master and replication
- ☐ 33 General Typesetting
- ☐ 34 Magnetic media Tape, disc, etc.
- ☐ 35 Variable imaging Laser, jet spray, etc.

DIE CUTTING & LETTERPRESS

- ☐ 36 Die cutting Index tabs
- ☐ 37 Die cutting Kit folders, file folders
- ☐ 38 Die cutting Custom, templates
- ☐ 39 Crash or overprinting Furnished stock

FOUR-COLOR PROCESS

- ☐ 19 Color Copying Any quality level
- ☐ 40 Products covering 2 or more bid categories
- ☐ 41 Sheets: Up to 18" Quality level III
- ☐ 42 Sheets: Over 18" to 29" Quality level III
- ☐ 43 Sheets: Over 29" to 40" Quality level III
- ☐ 44 Sheets: Over 40" Quality level III
- ☐ 45 Products including 2 codes 46 and 47
- ☐ 46 Sheets: Up to 40" Quality level VII
- ☐ 47 Sheets: Over 40" Quality level VII
- ☐ 48 Books: Not saddle-stitched Any quality level
- ☐ 49 Books: Saddle-stitched Any quality level

CUT SHEETS (FLAT OR FOLDED, NOT BOUND)

- ☐ 50 Products covering 2 or more bid categories
- ☐ 51 8 1/2x11 & 8x10 1/2 only 1 to 5M
- ☐ 52 8 1/2x11 & 8x10 1/2 only Over 5M to 1MM
- ☐ 53 8 1/2x11 & 8x10 1/2 only Over 1MM
- ☐ 54 Up to 18" 1 to 10M
- ☐ 55 Up to 18" Over 10M to 1MM
- ☐ 56 Up to 18" Over 1MM
- ☐ 57 Over 18" to 29" Any quantity
- ☐ 58 Over 29" to 40" Any quantity
- ☐ 59 Over 40" Any quantity

BUSINESS FORM SPECIALTIES

- ☐ 60 Shingled, letter-x, etc. Various specialties
- ☐ 61 Sales books Stapled cover
- ☐ 63 Tabulating cards Any specification
- ☐ 64 OCR or OMR printing 1 or Multiple parts
- ☐ 65 Re-moistenable glue strip 1 or Multiple parts
- ☐ 66 Pressure sensitive strip 1 or Multiple parts
- ☐ 67 Re-moistenable glue strip Continuous form only
- ☐ 68 Pressure sensitive strip Continuous form only

CONTINUOUS FORMS

- ☐ 70 Products covering 2 or more bid categories
- ☐ 71 11", 22" cut-off 1 part, except labels
- ☐ 72 11", 22" cut-off Multiple parts
- ☐ 73 8 1/2", 17" cut-off 1 part, except labels
- ☐ 74 8 1/2", 17" cut-off Multiple parts
- ☐ 75 12", 24" cut-off 1 part, except labels
- ☐ 76 12", 24" cut-off Multiple parts
- ☐ 77 7", 14" cut-off 1 part, except labels
- ☐ 78 7", 14" cut-off Multiple parts
- ☐ 69 Other sizes 1 part, except labels
- ☐ 89 Other sizes Multiple parts

SNAP APART SETS

- ☐ 80 Products covering 2 or more bid categories
- ☐ 81 1 to 5 parts 1 to 50M sets
- ☐ 82 1 to 5 parts Over 50M
- ☐ 83 6 to 10 parts 1 to 50M sets
- ☐ 84 6 to 10 parts Over 50M
- ☐ 85 Over 10 parts 1 to 50M sets
- ☐ 86 Over 10 parts Over 50 M sets
- ☐ 87 Double stub Any quantity
- ☐ 88 Tags with multiple parts Any quantity
- ☐ 62 No stub multiple part sets Edge glue

FLEXOGRAPHY, LABELS, DECALS, SCREEN PROCESS ON LABELS

- ☐ 90 Pressure sensitive Sheet labels
- ☐ 91 Pressure sensitive Roll labels
- ☐ 92 Dry gum Sheet labels
- ☐ 93 Dry gum Roll labels
- ☐ 79 Marginal punch continuous Pressure / dry gum

SCREEN PRINTING & PRINTING OF PLASTIC, MYLAR, ACETATE

- ☐ 94 Screen Printing Flat Sheets
- ☐ 95 Screen Printing Textiles
- ☐ 96 Printing of non-paper Process not specified

MISCELLANEOUS PRINTING PROCESSES

- ☐ 97 Thermography Any specification
- ☐ 98 Engraving Any specification
- ☐ 99 Foil stamping, embossing Any specification

SPECIALTY ITEMS

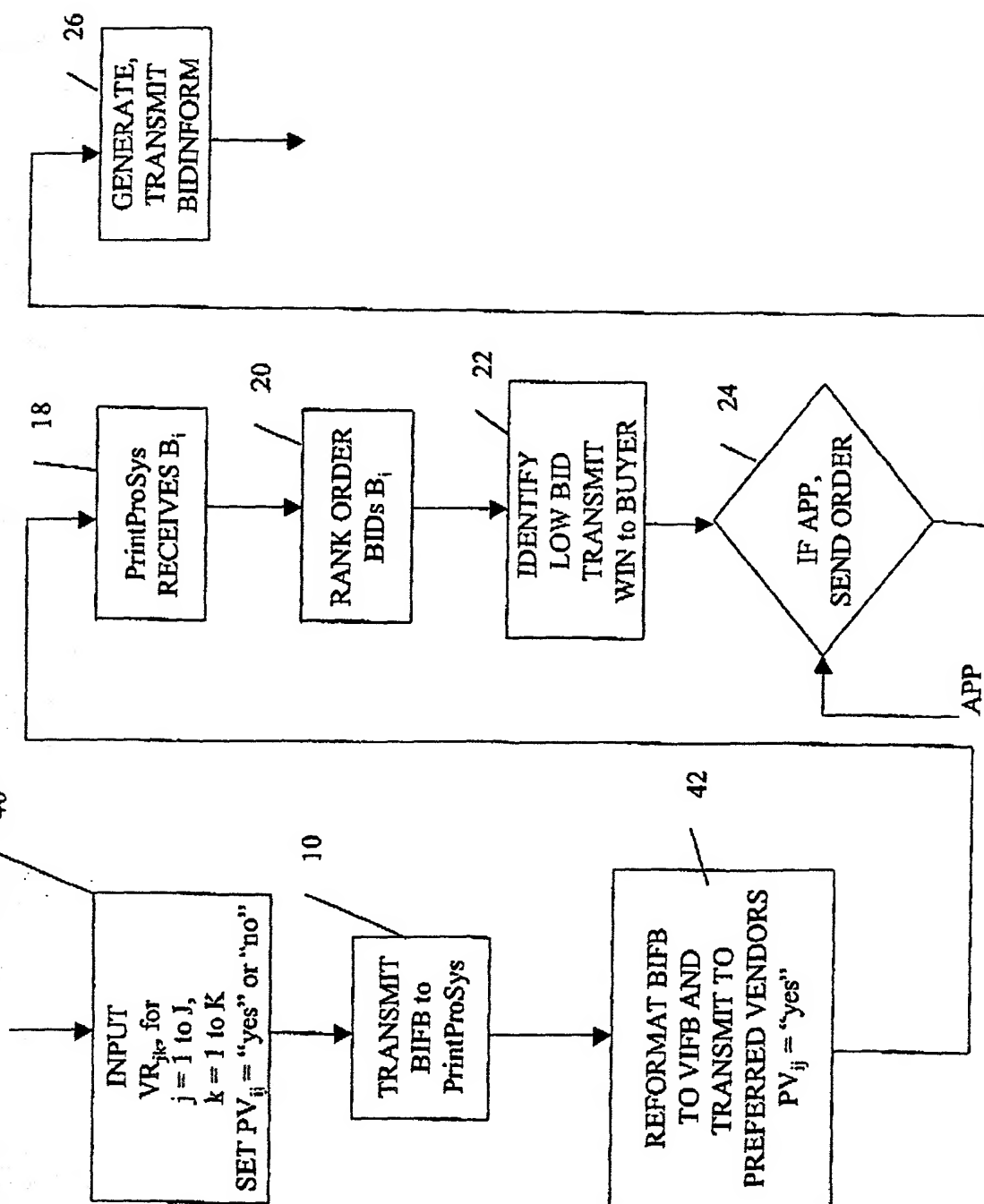
- ☐ 00 Tabloids Any specification
- ☐ 02 Microfiche Any quantity
- ☐ 03 Negatives Mass production
- ☐ 04 Lamination Any specification
- ☐ 05 Engineering drawings Diazo, mylar, tracing
- ☐ 06 Tags Eyelets, stringing
- ☐ 07 Expansion file folders With gussets
- ☐ 08 3 Ring binders Any specification
- ☐ 09 Advertising specialties Any specification

ENVELOPES

- ☐ 01 Converting Blank, printing, imprinting

F16.2

FIG. 3



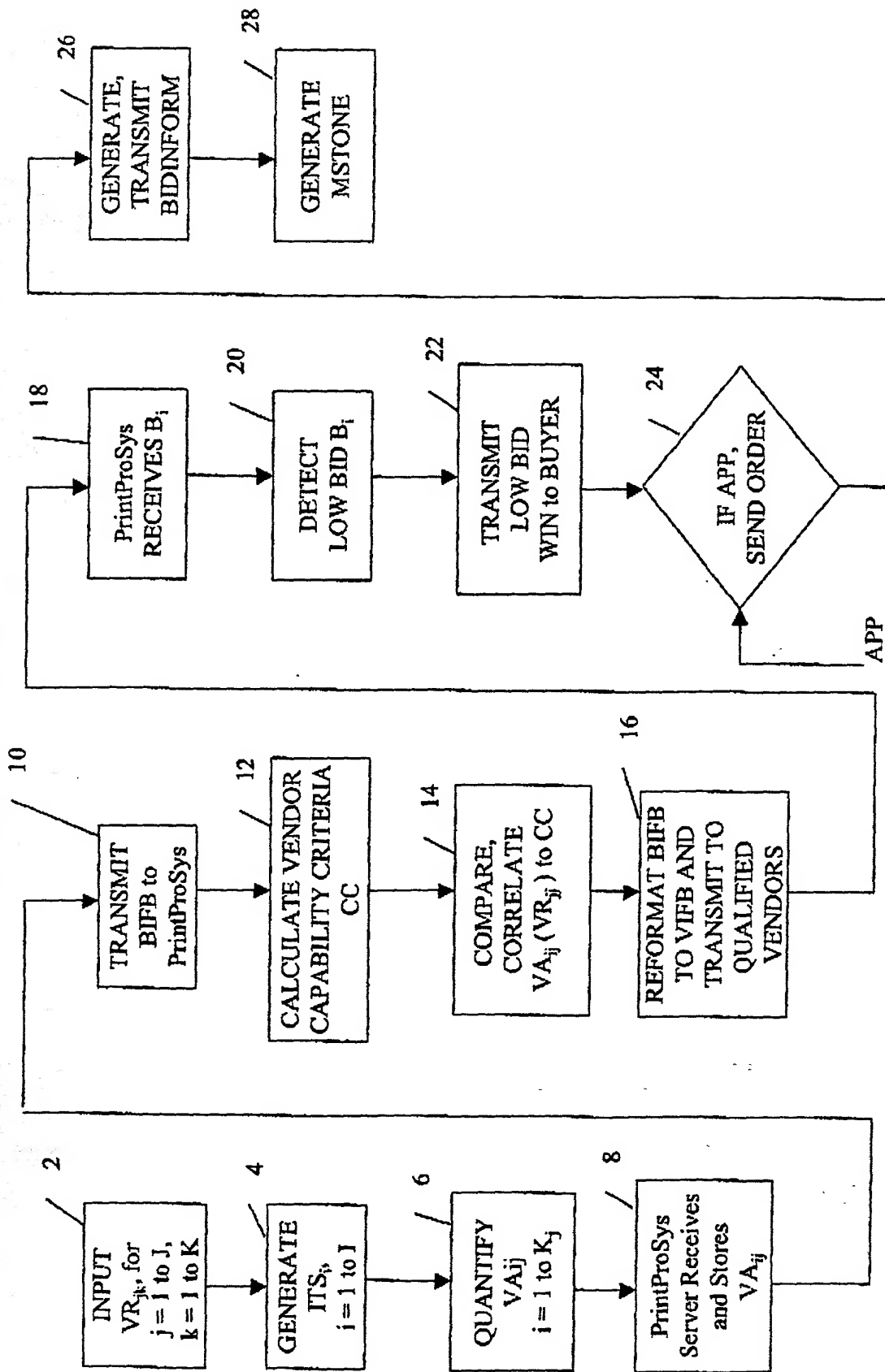


FIG. 4